Product datasheet Characteristics

RE17RMEMU

time delay relay 8 functions - 1 s..100 h - 24..240 V AC/DC - 1 OC



Main

IVIAIII		
Range of product	Zelio Time	
Product or component type	Modular timing relay	
Discrete output type	Relay	
Width	17.5 mm	
Device short name	RE17R	
Time delay type	H B D At A C Ht Di	determining suitability or reliability
Time delay range	660 s 660 min 110 h 0.11 s 110 s 110 min	nd is not to be used for
Nominal output current	8 A	

Complementary

Contacts material	Cadmium free	- 1
Control type	Selector switch on front panel	-600
[Us] rated supply voltage	24240 V AC at 50/60 Hz 24 V DC	- :
Voltage range	0.851.1 Us	- 10101
Supply frequency	5060 Hz (+/- 5 %)	_ 4
Input voltage	10 V	٥ -
Connections - terminals	Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm² AWG 20AWG 12 (solid) without cable end	oimer: Thi

	Screw terminals, clamping capacity: 2 x 0.52 x 2.5 mm² AWG 20AWG 14 (solid) without cable end
	Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm ² AWG 24AWG 14 (flexible) with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm ² AWG 24AWG 16 (flexible) with cable end
Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1
Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
Impulse duration	100 ms with load in parallel typical 30 ms typical
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Reset time	120 ms on de-energisation typical
On-load factor	100 %
Power consumption in VA	<= 32 VA at 240 V AC
Power consumption in W	<= 0.6 W at 24 V DC
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A AC/DC
Maximum switching voltage	250 V AC
Breaking capacity	<= 2000 VA
Operating rate in Hz	10 Hz
Electrical durability	100000 cycles for resistive load (8 A at 250 V AC maximum)
Mechanical durability	10000000 cycles
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1
[Uimp] rated impulse withstand voltage	5 kV (1.2/50 μs)
Delay response	< 100 ms
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1
Safety reliability data	MTTFd = 296.8 years B10d = 270000
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Local signalling	LED indicator on steady: relay energised, no timing in progress LED indicator flashing: timing in progress (80 % ON and 20 % OFF) LED indicator pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) (5 % ON and 95 % OFF)
Product weight	0.07 kg

Environment

Immunity to microbreaks	<= 20 ms
Standards	EN 61000-6-4
	2006/95/EC
	EN 61000-6-1
	2004/108/EC
	EN 61000-6-3
	IEC 61812-1
	EN 61000-6-2
Product certifications	CULus
	CSA
Ambient air temperature for storage	-3060 °C
Ambient air temperature for operation	-2060 °C
IP degree of protection	IP20 (terminal block) conforming to IEC 60529
	IP40 (housing) conforming to IEC 60529
	IP50 (front panel) conforming to IEC 60529
Vibration resistance	20 m/s² (f = 10150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
Relative humidity	93 % without condensation conforming to IEC 60068-2-30

Electromagnetic compatibility	Electrostatic discharge immunity test, in contact at 6 kV conforming to IEC 61000-4-2 level 3 Electrostatic discharge immunity test, in air at 8 kV conforming to IEC 61000-4-2 level 3
	Susceptibility to electromagnetic fields, 80 MHz to 1 GHz at 10 V/m conforming to IEC 61000-4-3
	level 3
	Electrical fast transient/burst immunity test, capacitive connecting clip at 1 kV conforming to IEC
	61000-4-4 level 3
	Electrical fast transient/burst immunity test, direct at 2 kV conforming to IEC 61000-4-4 level 3
	1.2/50 µs shock waves immunity test, differential mode at 1 kV conforming to IEC 61000-4-5 level 3
	1.2/50 µs shock waves immunity test, common mode at 2 kV conforming to IEC 61000-4-5 level 3
	Conducted RF disturbances, 0.1580 MHz at 10 V conforming to IEC 61000-4-6 level 3
	Voltage dips and interruptions immunity test, 1 cycle at 0 % conforming to IEC 61000-4-11
	Voltage dips and interruptions immunity test, 25/30 cycles at 70 % conforming to IEC 61000-4-11
	Conducted and radiated emissions conforming to EN 55022 class B

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1243 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	

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Function A: Power on Delay Relay

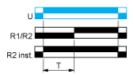
Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



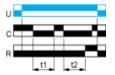
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Function At: Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.

Function: 1 Output



T = t1 + t2 +...

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Function B: Interval Relay with Control Signal

Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

Function: 1 Output

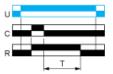
RE17RMEMU

Function C: Off-Delay Relay with Control Signal

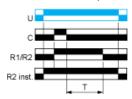
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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Function D: Symmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. The second output can be either timed or instantaneous.

Function: 1 Output

Function: 2 Outputs

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Function Di: Symmetrical Flasher Relay (Starting Pulse On)

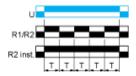
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



RE17RMEMU

Function H: Interval Relay

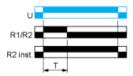
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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Function Ht: Interval Relay (Summation) with Control Signal

Description

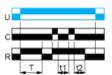
On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact C will again close the output R.

Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time t1 + t2 +...

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

Function: 1 Output



T = t1 + t2 + ...

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Legend

Relay de-energised

Relay energised

Output open

Output closed

C Control contact

G Gate

R Relay or solid state output

R1/R2 2 timed outputs

R2 inst. The second output is instantaneous if the right position is selected

T Timing periodTa Adjustable On-delayTr Adjustable Off-delay

U Supply

Product datasheet Dimensions Drawings

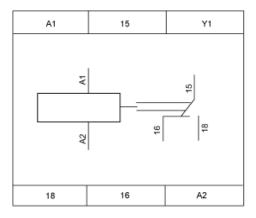
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Width 17.5 mm

Product datasheet Connections and Schema

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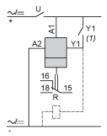
Internal Wiring Diagram



Product datasheet Connections and Schema

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Wiring Diagram



1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.